

## EAST Search History

## EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1	"20060051495"	US-PGPUB; USPAT	OR	OFF	2009/04/21 08:56
S2	6	("20030054105"   "3654109"   "4381894"   "5254832"   "5945163"   "6383301").PN.	US-PGPUB; USPAT	OR	OFF	2009/04/21 08:57
S3	0	"0293060"	JPO	OR	OFF	2009/04/21 09:54
S4	1	"02093060"	JPO	OR	OFF	2009/04/21 09:54
S5	1	"02093062"	JPO	OR	OFF	2009/04/21 09:54
S6	1551	118/726.ccls.	US-PGPUB; USPAT	OR	OFF	2009/04/21 09:59
S7	833	S6 and @ad<"20021105"	US-PGPUB; USPAT	OR	OFF	2009/04/21 09:59
S8	8	S7 and ((beam\$2 laser) near6 (pre-heat\$4 or (heat \$4 near4 (before prior first))))	US-PGPUB; USPAT	OR	OFF	2009/04/21 10:01
S9	15080	118/715-733.ccls. "427"/\$. ccls. and ((beam\$2 laser) near6 (pre-heat\$4 or (heat \$4 near4 (before prior first))))	US-PGPUB; USPAT	OR	OFF	2009/04/21 11:05
S10	232	(118/715-733.ccls. "427"/ \$.ccls.) and ((beam\$2 laser) near6 (pre-heat\$4 or (heat\$4 near4 (before prior first))))	US-PGPUB; USPAT	OR	OFF	2009/04/21 11:05
S11	162	S10 and @ad<"20021105"	US-PGPUB; USPAT	OR	OFF	2009/04/21 11:05
S12	8	S7 and ((beam\$2 gun) near6 (pre-heat\$4 or (heat \$4 near4 (before prior first))))	US-PGPUB; USPAT	OR	OFF	2009/04/21 11:43

S13	0	S7 and (((electron adj (beam\$2 gun)) with ((scan \$4 move\$2 moving movable translat\$4) near5 (zone\$2 region\$4 part\$2 portion\$2))) and ((pre-heat\$4 or heat\$4) near8 (before prior first)) near8 (melt\$4 evaporat\$4 vaporiz\$5)))	US-PGPUB; USPAT	OR	OFF	2009/04/21 11:49
S14	2	((118/715-733 "427"/\$). ccls. and (((electron adj (beam\$2 gun)) with ((scan \$4 move\$2 moving movable translat\$4) near5 (zone\$2 region\$4 part\$2 portion\$2))) and ((pre-heat\$4 or heat\$4) near8 (before prior first)) near8 (melt\$4 evaporat\$4 vaporiz\$5)))	US-PGPUB; USPAT	OR	OFF	2009/04/21 11:50
S15	58	((118/715-733 "427"/\$). ccls. and ((electron adj (beam\$2 gun)) with ((scan \$4 move\$2 moving movable translat\$4) near5 (zone\$2 region\$4 part\$2 portion\$2)))	US-PGPUB; USPAT	OR	OFF	2009/04/21 11:51
S16	1670	((118/715-733 "427"/\$). ccls. and (((pre-heat\$4 or heat\$4) near8 (before prior first)) near8 (melt\$4 evaporat\$4 vaporiz\$5)))	US-PGPUB; USPAT	OR	OFF	2009/04/21 11:53
S17	2	S15 and S16	US-PGPUB; USPAT	OR	OFF	2009/04/21 11:53
S18	18743	((118/715-733 "427"/\$). ccls. and ((pre-heat\$4 or heat\$4) with (melt\$4 evaporat\$4 vaporiz\$5)))	US-PGPUB; USPAT	OR	OFF	2009/04/21 11:55
S19	904	118/726.ccls. and ((pre-heat\$4 or heat\$4) with (melt\$4 evaporat\$4 vaporiz\$5)))	US-PGPUB; USPAT	OR	OFF	2009/04/21 11:55
S20	587	118/726.ccls. and ((pre-heat\$4 or heat\$4) same (portion\$2 region\$3 part \$2) same (melt\$4 evaporat \$4 vaporiz\$5)))	US-PGPUB; USPAT	OR	OFF	2009/04/21 11:56
S21	368	S20 and @ad< "20021105"	US-PGPUB; USPAT	OR	OFF	2009/04/21 11:56

S22	287	118/726.ccls. and (electron adj (beam\$2 gun \$2))	US-PGPUB; USPAT	OR	OFF	2009/04/21 11:59
S23	143	S20 and S22	US-PGPUB; USPAT	OR	OFF	2009/04/21 11:59
S24	94	S23 and @ad< "20021105"	US-PGPUB; USPAT	OR	OFF	2009/04/21 11:59
S25	7	118/726.ccls. and ((electron adj (beam\$2 gun\$2)) with (scan\$3 sweep\$4 rotat\$4 move\$3 movable moving) with ((heat\$4 pre-heat\$4) near8 (melt\$3 evaporat\$5 vaporiz\$5)))	US-PGPUB; USPAT	OR	OFF	2009/04/21 12:09
S26	32	(118/715-733 "427"/\$). ccls. and ((electron adj (beam\$2 gun\$2)) with (scan\$3 sweep\$4 rotat\$4 move\$3 movable moving) with ((heat\$4 pre-heat\$4) near8 (melt\$3 evaporat\$5 vaporiz\$5)))	US-PGPUB; USPAT	OR	OFF	2009/04/21 12:11
S27	29	S26 and @ad< "20021105"	US-PGPUB; USPAT	OR	OFF	2009/04/21 12:11
S28	25	S27 not S25	US-PGPUB; USPAT	OR	OFF	2009/04/21 12:11
S29	0	superconductor\$2 and ((electron adj (beam\$2 gun\$2)) with (scan\$3 sweep\$4 rotat\$4 move\$3 movable moving) with ((heat\$4 pre-heat\$4) near8 (melt\$3 evaporat\$5 vaporiz\$5)))	US-PGPUB; USPAT	OR	OFF	2009/04/21 13:29
S30	101	((electron adj (beam\$2 gun\$2)) with (scan\$3 sweep\$4 rotat\$4 move\$3 movable moving) with ((heat\$4 pre-heat\$4) near8 (melt\$3 evaporat\$5 vaporiz\$5)))	EPO; JPO; DERWENT	OR	OFF	2009/04/21 13:29
S31	97	S30 and @ad< "20021105"	EPO; JPO; DERWENT	OR	OFF	2009/04/21 13:30
S32	11	("3450824"   "3499167"   "3801356"   "3836393"). PN. OR ("4104418"). URFN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/04/21 15:34
S33	1655	118/726,723EB.ccls.	US-PGPUB; USPAT	OR	OFF	2009/04/23 13:19

S34	905	S33 and @ad< "20021105"	US-PGPUB; USPAT	OR	OFF	2009/04/23 13:20
S35	12	S34 and ((electron adj (beam\$2 gun\$2)) with ((higher two second bigger) near6 (power\$2 energy\$2)))	US-PGPUB; USPAT	OR	OFF	2009/04/23 13:22
S36	34	(semiconductor\$2 wafer \$2) and ((electron adj (beam\$2 gun\$2)) with ((higher two second bigger) near6 (power\$2 energy\$2)))	EPO; JPO; DERWENT	OR	OFF	2009/04/23 14:37
S37	21	S36 and @ad< "20021105"	EPO; JPO; DERWENT	OR	OFF	2009/04/23 14:37
S38	51	(hill near2 russell).in.	US-PGPUB; USPAT	OR	OFF	2009/04/24 11:45
S39	1655	118/726,723EB.ccls.	US-PGPUB; USPAT	OR	OFF	2009/04/24 12:31
S40	905	S39 and @ad< "20021105"	US-PGPUB; USPAT	OR	OFF	2009/04/24 12:31
S41	52	S40 and (superconduct\$5 near7 (coat\$3 evaporat\$4 vaporiz\$5 film\$2))	US-PGPUB; USPAT	OR	OFF	2009/04/24 12:33
S42	328	(118/715-733.ccls. 427/255\$.ccls.) and (superconduct\$5 near7 (coat\$3 evaporat\$4 vaporiz\$5 film\$2))	US-PGPUB; USPAT	OR	OFF	2009/04/24 12:50
S43	265	S42 and @ad< "20021105"	US-PGPUB; USPAT	OR	OFF	2009/04/24 12:50
S44	213	S43 not S41	US-PGPUB; USPAT	OR	OFF	2009/04/24 12:50
S45	181	S44 and (hopper refill\$4 source)	US-PGPUB; USPAT	OR	OFF	2009/04/24 12:53
S46	3	S44 and (hopper refill\$4)	US-PGPUB; USPAT	OR	OFF	2009/04/24 12:54
S47	1573	118/726.ccls.	US-PGPUB; USPAT	OR	OFF	2009/08/23 13:26
S48	834	S47 and @ad< "20021105"	US-PGPUB; USPAT	OR	OFF	2009/08/23 13:27
S49	9	(helmut near2 kinder).in.	US-PGPUB; USPAT	OR	OFF	2009/08/23 13:27
S50	10	S48 and (pre-heat\$3 (pre adj heat\$3)) and ((evaporat\$4 vaporiz\$5) near5 (zon\$3 region\$4 area\$2 portion\$2))	US-PGPUB; USPAT	OR	OFF	2009/08/23 13:37

S51	2	S48 and ((pre-heat\$3 (pre adj heat\$3)) near8 material)	US-PGPUB; USPAT	OR	OFF	2009/08/23 13:45
S52	12	S48 and (heat\$3 near8 material near8 before)	US-PGPUB; USPAT	OR	OFF	2009/08/23 13:47
S53	1	"5849371".pn.	US-PGPUB; USPAT	OR	OFF	2009/08/23 15:41
S54	16	("4152478"   "4281030"   "4604293"   "4799454"   "4816293"   "4836140"   "5085166"   "5302208"   "5316585"   "5478398"). PN. OR ("5849371"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/23 15:41
S55	7	("4701592"   "5122636"   "5124310"   "5206216"). PN. OR ("5478398"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/23 18:14
S56	7	("4701592"   "5122636"   "5124310"   "5206216"). PN. OR ("5478398"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2009/08/23 18:22
S57	1411	"7" and (heat\$3 near8 material near8 before) and ((power energy) near5 (second two higher lower))	US-PGPUB; USPAT	OR	OFF	2009/08/23 18:24
S58	1573	118/726.ccls.	US-PGPUB; USPAT	OR	OFF	2009/08/23 18:25
S59	834	S58 and @ad< "20021105"	US-PGPUB; USPAT	OR	OFF	2009/08/23 18:25
S60	3	S59 and (heat\$3 near8 material near8 before) and ((power energy) near5 (second two higher lower))	US-PGPUB; USPAT	OR	OFF	2009/08/23 18:25
S61	72	S59 and (heat\$3 near8 material) and ((power energy) near5 (second two higher lower))	US-PGPUB; USPAT	OR	OFF	2009/08/23 19:24
S62	69	S59 and (heat\$3 near5 material) and ((power energy) near5 (second two higher lower))	US-PGPUB; USPAT	OR	OFF	2009/08/23 19:25
S63	30	S59 and ((heat\$3 near5 material) near8 (gun source laser)) and ((power energy) near5 (second two higher lower))	US-PGPUB; USPAT	OR	OFF	2009/08/23 19:31

S64	3372	((coat\$3 deposit\$4 film\$2) and ((heat\$3 near5 material) near8 (gun source laser)) and ((convey\$5 transport\$5 carriage\$4 carry\$4) near6 material\$2)	US-PGPUB; USPAT	OR	OFF	2009/08/23 19:34
S65	1053	((coat\$3 deposit\$4 film\$2) and ((heat\$3 near5 material) near8 (gun laser)) and ((convey\$5 transport\$5 carriage\$4 carry\$4) near6 material\$2)	US-PGPUB; USPAT	OR	OFF	2009/08/23 19:34
S66	544	S65 and @ad<"20021105"	US-PGPUB; USPAT	OR	OFF	2009/08/23 19:35
S67	7	S66 and 118/726.ccls.	US-PGPUB; USPAT	OR	OFF	2009/08/23 19:35
S68	5	118/726.ccls. and ((pre-heat\$4 or (pre adj heat \$4)) near8 (material powder substance))	US-PGPUB; USPAT	OR	OFF	2009/08/23 19:40
S69	4	118/715.ccls. and ((pre-heat\$4 or (pre adj heat \$4)) near8 (material powder substance))	US-PGPUB; USPAT	OR	OFF	2009/08/23 19:43
S70	249	"427"/\$.ccls. and ((pre-heat\$4 or (pre adj heat \$4)) near8 (material powder substance))	US-PGPUB; USPAT	OR	OFF	2009/08/23 19:44
S71	132	"427"/\$.ccls. and ((pre-heat\$4 or (pre adj heat \$4)) near8 (material powder substance)) and (crucible gun beam laser)	US-PGPUB; USPAT	OR	OFF	2009/08/23 19:45
S72	63	S71 and @ad<"20021105"	US-PGPUB; USPAT	OR	OFF	2009/08/23 19:46
S73	2	118/723EB,723VE.ccls. and ((pre-heat\$4 or (pre adj heat\$4)) near8 (material powder substance))	US-PGPUB; USPAT	OR	OFF	2009/08/23 19:54
S74	37	S59 and (((material substance powder) near6 (move\$2 transport\$5)) with (heat\$4 pre-heat\$3 temperature))	US-PGPUB; USPAT	OR	OFF	2009/08/23 19:58

S75	13426	((coat\$3 deposit\$4 film\$2) and ((heat\$3 pre-heat\$3) near5 material) and (crucible gun laser) and ((convey\$5 transport\$5 carriage\$4 carry\$4) near6 material\$2)	US-PGPUB; USPAT	OR	OFF	2009/08/23 20:18
S76	4048	((coat\$3 deposit\$4 film\$2) with vapor) and ((heat\$3 pre-heat\$3) near5 material) and (crucible gun laser) and ((convey\$5 transport\$5 carriage\$4 carry\$4) near6 material \$2)	US-PGPUB; USPAT	OR	OFF	2009/08/23 20:19
S77	828	((coat\$3 deposit\$4 film\$2) with vapor\$7) and (((heat \$3 pre-heat\$3) near5 material) same (gun laser)) and ((convey\$5 transport\$5 carriage\$4 carry\$4) near6 material \$2)	US-PGPUB; USPAT	OR	OFF	2009/08/23 20:21
S78	352	S77 and @ad<"20021105"	US-PGPUB; USPAT	OR	OFF	2009/08/23 20:21
S79	21	S78 and 118/715-733. ccls.	US-PGPUB; USPAT	OR	OFF	2009/08/23 20:21
S80	100	S78 and "427"/\$.ccls.	US-PGPUB; USPAT	OR	OFF	2009/08/23 20:47
S81	87	S80 not S79	US-PGPUB; USPAT	OR	OFF	2009/08/23 20:47
S82	1	"3957918".pn.	US-PGPUB; USPAT	OR	OFF	2009/08/24 09:55
S83	1	"4006268".pn.	US-PGPUB; USPAT	OR	OFF	2009/08/24 09:58
S84	1	"4157923".pn.	US-PGPUB; USPAT	OR	OFF	2009/08/24 10:06
S85	29	(evaporat\$4 and (beam gun laser) and (power energy) and (pre-heat\$3 or (pre adjust heat\$4)) and (convey\$5 transport \$5 carr\$5) and ((First second) near5 (part portion zone region))). clm.	US-PGPUB; USPAT	OR	OFF	2009/08/24 19:15

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